

CLAIM

What I claim is:

1. A kind of transient voltage suppressor structure applicable to electronic components. The said transient voltage suppressor structure includes:

5 A basic substrate;

A conductive electrode that is placed on the basic substrate;

A variable impedance material that is placed on the conductive electrode;

An insulation layer that is placed on the variable impedance material and exposes a partial area of the variable impedance material; and

10 A conductive electrode is placed on the insulation layer and the exposed variable impedance material and connects with the variable impedance material.

2. The transient voltage suppressor structure as recited in claim 1, wherein the basic substrate is a glass.

15 3. The transient voltage suppressor structure as recited in claim 1, wherein the basic substrate is a ceramic material.

4. The transient voltage suppressor structure as recited in claim 1, wherein a contact face exists between the variable impedance material and the signal electrode to conduct the transient voltage to the ground electrode.

20 5. The transient voltage suppressor structure as recited in claim 1, wherein the insulation layer can prevent the point discharge occurring on the edge of the signal electrode.

6. The transient voltage suppressor structure as recited in claim 1, wherein the insulation layer is made from material with low dielectric constant, such as
25 oxide or metallic oxide.

7. The transient voltage suppressor structure as recited in claim 1, wherein

the structure of the insulation layer is in conformity with the profile of the variable impedance material.

8. A kind of transient voltage suppressor structure applicable to electronic components. The said transient voltage suppressor structure includes:

5 A basic substrate;

A signal electrode and a ground electrode that are placed on the basic substrate;

An insulation layer that is placed on the basic substrate between the signal electrode and the ground electrode;

10 A variable impedance material that is placed on the insulation layer between the signal electrode and the ground electrode and connects with the signal electrode and the ground electrode through the variable impedance material;

9. The transient voltage suppressor structure as recited in claim 7, wherein the basic substrate is a glass or a ceramic basic substrate.

15 10. The transient voltage suppressor structure as recited in claim 7, wherein a contact face exists between the variable impedance material and the signal electrode to conduct the transient voltage to the ground electrode.

20 11. The transient voltage suppressor structure as recited in claim 7, wherein the insulation layer covers the edge of the signal electrode to prevent the effect of the point discharge occurring on the edge of the signal electrode.

12. The transient voltage suppressor structure as recited in claim 7, wherein the insulation layer is made from material with low dielectric constant, such as oxide or metallic oxide.

25 13. A kind of transient voltage suppressor structure applicable to electronic components. The said transient voltage suppressor structure includes a basic substrate, each one signal and ground electrode placed on the basic substrate, a

electrode and the ground electrode and connects with the signal electrode and the ground electrode electrically.

20. The transient voltage suppressor structure as recited in claim 12, wherein the basic substrate is a glass or ceramic basic substrate.

5 21. The transient voltage suppressor structure as recited in claim 12, wherein the insulation layer is made from material with low dielectric constant, such as oxide or metallic oxide.

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